

[Name of Document] Abstract of the Disclosure

[Abstract]

[Object] To be able to compare and review estimates from a plurality of manufacturers.

[Solving Means] Cost factor data are provided from a plurality of makers 13 with respect to information such as CAD data, etc. of components which are provided by a development department 10, and stored in databases 15, 16. Manufacturing costs are calculated for the respective makers based on the cost factor data, and then displayed. The provided information and the cost factor data stored in the databases 15, 16 are browsed through a network. The cost factor data stored in the databases 15, 16 are updated through the network. The displayed manufacturing costs are browsed through the network.

[Selected Drawing] FIG. 1

[FIG. 1]

10: DEVELOPMENT
11: MANAGEMENT
12: PURCHASE
13.₁: PRODUCTION SITE
13.₂: PRODUCTION SITE
13._n: PRODUCTION SITE
14: MEMORY DEVICE
15: MANUFACTURING COST PRICE DATABASE
16: VARIABLE COST DATABASE
17.₁: COMPONENT MAKER
17.₂: COMPONENT MAKER
17._N: COMPONENT MAKER
100: IN-HOUSE NET
200: INTERNET

[FIG. 2]

1: INPUT DEVICE
2: DISPLAY DEVICE
3: MEMORY UNIT
14: MEMORY DEVICE
15: MANUFACTURING COST PRICE DATABASE
16: VARIABLE COST DATABASE
41: DISPLAY INFORMATION PROCESSOR

42: INPUT INFORMATION PROCESSOR
43: MANUFACTURING COST PRICE ELEMENT CALCULATOR
44: VARIABLE COST ELEMENT CALCULATOR
45: COST CALCULATION PROCESSOR
46: CALCULATED RESULT DISPLAY UNIT

[FIG. 3]

10: DEVELOPMENT DEPARTMENT
11: MANAGEMENT DEPARTMENT
12: PURCHASE DEPARTMENT
13: INTERNAL PRODUCTION DEPARTMENT
14: MEMORY DEVICE
15, 16: DATABASE
17: COMPONENT MAKER
17: COMPONENT MAKER
NEGOTIATION

[FIG. 4]

START OF ESTIMATION
S1: SELECT COMPONENT CHARACTERISTICS
S2: CALCULATE COST FOR E
S3: CALCULATE COST FOR F
S4: CALCULATE COST FOR C
S5: CALCULATE COST FOR D

END

[FIG. 5]

SEQUENTIAL PROCESS

CHARGED

D1: BLANKING/MARKING

D2: DRAWING

D3: PUNCHING

D4: BURRING 1

D5: BURRING 2

D6: DRAWING FOR FINISHING

COMPLETED COMPONENT

SINGLE PROCESS

CHARGED

D1: BLANKING/MARKING

CHARGED

D2: DRAWING

CHARGED

D3: PUNCHING

CHARGED

D4: BURRING 1

CHARGED

D5: BURRING 2

CHARGED

D6: DRAWING FOR FINISHING

COMPLETED COMPONENT

MARKING

FINISHING OF INNER CIRCUMFERENTIAL SURFACE OF BOSS

FINISHING OF INNER CIRCUMFERENTIAL SURFACE OF HUB

[FIG. 6]

AFTER CHANGE a1

AFTER CHANGE a2

AFTER CHANGE a1

AFTER CHANGE a2